Acciaio Extreme LED

Industrial LED luminaire

This luminaire is suitable for outdoor installations for particularly demanding applications in high-risk areas. The stainless steel housing and extruded aluminium terminals grant an excellent mechanical resistance and resistance to aggressive chemical agents. It is suitable for installations according to Standard ATEX 2014/34/UE zone 02-22, for through wiring and continuous raw installations.

The optic system consists of a reflector subdivided into aluminium cells preventing any glare and of a microprismatic glass with very high light transmittance.

This luminaire has a very high oxidation and erosion-corrosion resistance, and it is designed to resist mechanical vibrations and electromagnetic disturbances typical of industrial environments.

General Characteristics

Equivalent Power*	2× 36, 2× 58, 2× 80 W
Power supply	93–265 V$_{AC}$ 50/60 Hz 176–250 V$_{DC}$
Standard	EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), UNI9554:1989, DIN 18032-3:1997-04, EN 62471 (Photobiological hazard), ATEX 2014/34/UE
Protection grade	IP66
Working temp.	-30 °C ÷ +50 °C****
Mounting	ceiling, suspension, busbar trunking
Body	stainless steel Aisi 304
Head Caps	die-cast aluminium
Louvre	Wide anti-glare aluminium
Screen	micro-prismatic Tempered glass
Driver	**SD Version:** SELV electronic SD (cos $\varphi \geq 0.96$) with intelligent dimming
MTBF Control gear**	80 000 h
Luminous flux maintenance**	>60 000 h (L80B20)
Colour deviation	3 SDCM

* Equivalent power for comparison with metal halide device
** At environmental reference temperature of 25 °C
**** At highest working temperature thermal protection may reduce the output power.
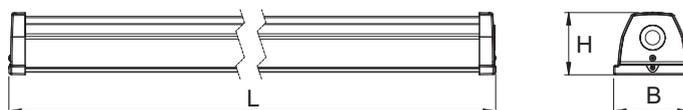
Power * W	• Dimensions (mm) •			Weight max kg
	L	B	H	
2× 36	1 199	109	88	3.3
2× 58	1 199	109	88	3.3
2× 80	1 484	109	88	4.0

Accessories — supplied

Order code	Description
–	THROUGH WIRING KIT
–	ATEX KIT

Accessories — to be ordered separately

Order code	Description
15019	INPUT DOUBLE COUPLING M20
20123	ADJUSTABLE WALL BRACKET
20125	POLE MOUNTING BRACKET

**SPECIAL VARIANTS: COLOUR TEMPERATURE ON REQUEST, COLOUR RENDERING ≥90
Contact the Beghelli sales network**

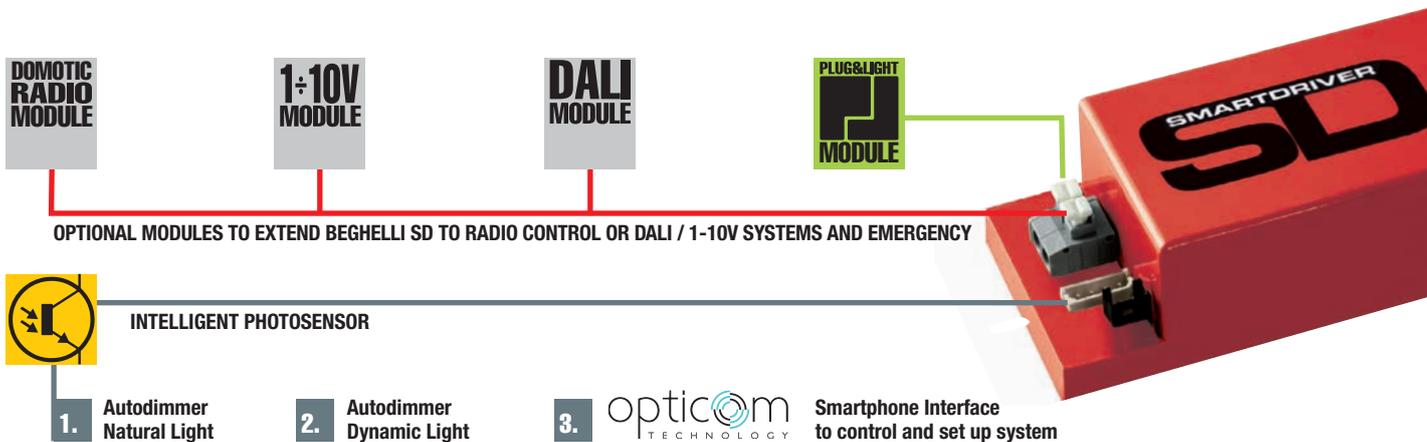## Accessories SD — supplied

Order code	Description
15040	OPTICOM PHOTOSENSOR ACCIAIO

Building automation SD — to be ordered separately

| Order code	Description
20102	BUILDING AUTOMATION CENTRAL UNIT
20124	BUILDING AUTOMATION CENTRAL UNIT WIFI
20104	2 INPUT INTERFACE – RADIO TRANSMITTER
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE

DOMOTIC RADIO MODULE

1÷10V MODULE

DALI MODULE

PLUG&LIGHT MODULE

SMARTDRIVER SD

OPTIONAL MODULES TO EXTEND BEGHELLI SD TO RADIO CONTROL OR DALI / 1-10V SYSTEMS AND EMERGENCY

INTELLIGENT PHOTOSENSOR

1. Autodimmer Natural Light

2. Autodimmer Dynamic Light

3. opticom TECHNOLOGY — Smartphone Interface to control and set up system

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the Acciaio Extreme LED:

Dimming SD	**50 %**
Device duration	**+40 %**
Luminous efficiency	**+10 %**

Polar Diagram

cd/klm

	C0-C180	C90-C270
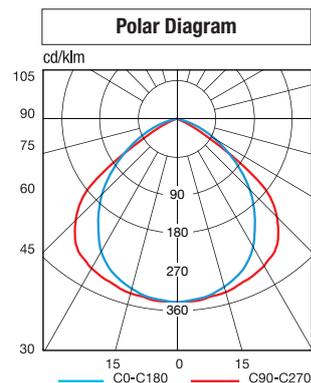
EMERGENCY WITH LED INVERTER			TR	AT	LG	LGFM
	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately			
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V	to be ordered separately			
	19355	INVERTER LED AT/LG 6W 55V 123H	to be ordered separately			
	19372	INVERTER LED AT/LG 8W 55V 123H	to be ordered separately			
	19390	INVERTER EXT AT/LG 15W 55V 0,75-1-2-3-8H LTO	to be ordered separately			
	19391	INVERTER EXT AT/LG 15W 55V 0,75-1-2-3-8H LiFe	to be ordered separately			

INVERTER

LG Inverters can be transformed in LGFM with the accessory code 19375

Acciaio Extreme LED   SmartDriver SD

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
2× 36	**A236EXSD**	ACCIAIO EX LED 2x36 SD 4000K	32	4 000	≥80	35	90	5 500	4 700	135	A++	1
2× 58	**A258EXSD**	ACCIAIO EX LED 2x58 SD 4000K	47	4 000	≥80	52	144	8 200	7 000	135	A++	1
2× 80	**A280EXSD**	ACCIAIO EX LED 2x80 SD 4000K	67	4 000	≥80	74	180	11 600	9 900	135	A++	1